

CLAIMS

What is claimed is:

1. An environmental stress responsive promoter comprising DNA of the following (a), (b) or (c):

(a) DNA consisting of any nucleotide sequence selected from SEQ ID NOS: 1 to 8;

(b) DNA consisting of a nucleotide sequence comprising a deletion, substitution or addition of one or more nucleotides relative to any nucleotide sequence selected from SEQ ID NOS: 1 to 8, and functioning as an environmental stress responsive promoter; and

(c) DNA hybridizing under stringent conditions to DNA consisting of any nucleotide sequence selected from SEQ ID NOS: 1 to 8, and functioning as an environmental stress responsive promoter.

2. An environmental stress responsive promoter comprising DNA of the following (a), (b) or (c):

(a) DNA consisting of any nucleotide sequence selected from SEQ ID NOS: 9 to 18;

(b) DNA consisting of a nucleotide sequence comprising a deletion, substitution or addition of one or more nucleotides relative to any nucleotide sequence selected from SEQ ID NOS: 9 to 18, and functioning as an environmental stress responsive promoter; and

(c) DNA hybridizing under stringent conditions to DNA consisting of any nucleotide sequence selected from SEQ ID NOS: 9 to 18, and functioning as an environmental stress responsive promoter.

3. The promoter according to claim 1 or 2, wherein the environmental stress is at least one selected from the group consisting of cold stress, drought stress, salt stress and high photo stress.

4. An expression vector comprising the promoter according to any one of claims 1 to 3.
5. The expression vector according to claim 4, into which a desired gene is further incorporated.
6. A transformant comprising the expression vector according to claim 4 or 5.
7. A transgenic plant comprising the expression vector according to claim 4 or the recombinant vector according to claim 5.
8. The transgenic plant according to claim 7, wherein the plant is a plant body, plant organ, plant tissue or plant culture cell.
9. A method for producing a stress-resistant plant, which comprises culturing or cultivating the transgenic plant according to claim 7 or 8.